

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) ~~Seed of a~~ A seed of soybean variety designated cultivar 6190006 wherein a representative sample of seed was deposited under ATCC Accession No. _____ No. PTA-7236.
2. (CURRENTLY AMENDED) A soybean plant, ~~or parts or a part thereof~~, of variety soybean cultivar 6190006, wherein a representative sample of seed of said variety soybean cultivar was having been deposited under ATCC Accession No. _____ No. PTA-7236.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule of the plant of claim 2.
5. (CURRENTLY AMENDED) A tissue culture of ~~regenerable cells~~ produced from the plant of claim 2.
6. (CURRENTLY AMENDED) ~~A tissue~~ The tissue culture of cells of claim 5 ~~according to claim 5~~, wherein said cell said cells ~~or a protoplast~~ of the tissue culture is ~~derived~~ are produced from a tissue plant part selected from the group consisting of: consisting of leaves, pollen, embryos, ~~cotyledon~~, cotyledons, hypocotyl, meristematic cells, roots, root tips, pistils, anthers, flowers, seeds, stems and pods.
7. (CURRENTLY AMENDED) A soybean plant regenerated from the tissue culture of claim 5, wherein the regenerated plant ~~is capable of expressing~~ has all of the morphological and physiological characteristics of soybean cultivar 6190006 and wherein a sample of seed was deposited under ATCC Accession No. _____ No. PTA-7236.
8. (ORIGINAL) A method for producing a hybrid soybean seed comprising crossing a first parent soybean plant with a second parent soybean plant and harvesting the resultant hybrid soybean seed, wherein said first parent soybean plant or said second parent soybean plant is the soybean plant of claim 2.

9.-20. (CANCELED)

21. (NEW) A method of producing an herbicide resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers herbicide resistance.

22. (NEW) An herbicide resistant soybean plant produced by the method of claim 21.

23. (NEW) A method of producing an insect resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers insect resistance.

24. (NEW) An insect resistant soybean plant produced by the method of claim 23.

25. (NEW) A method of producing a disease resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers disease resistance.

26. (NEW) A disease resistant soybean plant produced by the method of claim 25.

27. (NEW) A method of producing a soybean plant with modified fatty acid metabolism or modified carbohydrate metabolism wherein the method comprises transforming the soybean plant of claim 2 with a transgene encoding a protein selected from the group consisting of fructosyltransferase, levansucrase, alpha-amylase, invertase, starch branching enzyme or encoding an anti-sense of stearyl-ACP desaturase.

28. (NEW) A soybean plant having modified fatty acid metabolism or modified carbohydrate metabolism produced by the method of claim 27.

29. (NEW) A method of introducing a desired trait into soybean cultivar 6190006 wherein the method comprises:

- (a) crossing the 6190006 plants, wherein a representative sample of seed was deposited under ATCC Accession No. PTA-7236, with plants of another soybean cultivar that comprise a desired trait to produce progeny

- plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance and resistance to bacterial, fungal or viral disease;
- (b) selecting one or more progeny plants that have the desired trait to produce selected progeny plants;
 - (c) crossing the selected progeny plants with the 6190006 plants to produce backcross progeny plants;
 - (d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of soybean cultivar 6190006 to produce selected backcross progeny plants; and
 - (e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of soybean cultivar 6190006 as described in the Variety Description Information.

30. (NEW) A plant produced by the method of claim 29, wherein the plant has the desired trait and all of the physiological and morphological characteristics of soybean cultivar 6190006 as described in the Variety Description Information.

31. (NEW) A protoplast produced from the plant of claim 2.

32. (NEW) A protoplast produced from the tissue culture of claim 6.